

PATENT Attorney Docket No. 207496

67-28-02

HE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Wang et al.

Application No. 09/896,062

Filed: June 29, 2001

For: FREQUENCY DOMAIN

POSTFILTERING FOR QUALITY ENHANCEMENT OF CODED SPEECH

Group Art Unit: 2644

Examiner: Unassigned

FEB 2 2 2002

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents Washington, D.C. 20231

Pursuant to 37 CFR 1.97 and 1.98, the references listed on the enclosed Form PTO-1449 and/or Substitute Form PTO-1449 ("Form 1449") are submitted for consideration by the Examiner in the examination of the above-identified patent application.

The full consideration of the references in their entirety by the Examiner is respectfully requested and encouraged. Also, it is respectfully requested that the references be entered into the record of the present application and that the Examiner place his or her initials in the appropriate area on the enclosed Form 1449, thereby indicating the Examiner's consideration of each of the references.

The submission of the references listed on the Form 1449 is for the purpose of providing a complete record and is not a concession that the references listed thereon are prior art to the invention claimed in the patent application. The right is expressly reserved to establish an invention date earlier than the above-identified filing date in order to remove any reference submitted herewith as prior art should it be deemed appropriate to do so.

Further, the submission of the references is not to be taken as a concession that any reference represents art that is relevant or analogous to the claimed invention. Accordingly, the right to argue that any reference is not properly within the scope of prior art relevant to an examination of the claims in the above-identified application is also expressly reserved.

The Information Disclosure Statement is being filed:

within any one of the following time periods: (a) within three months of the filing date of a national application other than a continued prosecution application under 37 CFR 1.53(d); (b) within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 of an international application; (c) before the mailing date of a first Office Action on the merits; or (d) before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.

In re Appln. of Wang et al. Application No. 09/896,062

	after (a), (b), (c) or (d) above, but before the mailing date of a final action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an action that otherwise closes prosecution in the application, and includes <i>one</i> of:					
		the Statement under 37 CFR 1.97(e) (see "Statement under 37 CFR 1.97(e)" below).				
	\Box	the fee of \$180 set forth in 37 CFR 1.17(p) (see "Fees" below).				
	under and o 37 CF	the mailing date of a final action under 37 CFR 1.113 or a Notice of Allowance 37 CFR 1.311, or an action that otherwise closes prosecution in the application, or before payment of the issue fee, and includes the Statement under R 1.97(e) (see "Statement under 37 CFR 1.97(e)" below), and the fee of \$180 as the in 37 CFR 1.17(p) (see "Fees" below).				
	payme contain 37 CF \$180 a NOTE: May 29	the mailing date of a Notice of Allowance under 37 CFR 1.311, and on or before ant of the issue fee, and within thirty days of receiving each item of information need in the Information Disclosure Statement, and includes the Statement under R 1.704(d) (see "Statement under 37 CFR 1.704(d)" below), and the fee of its set forth in 37 CFR 1.17(p) (see "Fees" below). This is for original applications except applications for a design patent, filed on or after a 2000, wherein a paper containing only an Information Disclosure Statement in compliance CFR 1.97 and 1.98 is being filed.				
Copie	s of the	References				
\boxtimes	except	s of the references listed on the enclosed Form 1449 are enclosed herewith were noted. Attached to each reference not in the English language is a e explanation of the relevance pursuant to 37 CFR 1.98(a)(3).				
	A copy	y of the foreign search report is enclosed herewith.				
	parent furnish submit The E accord Proced relied	eferences listed on the enclosed Form 1449 were previously identified in the application(s) of the present application, and copies of the references were need at that time. Accordingly, additional copies of the references are not steed herewith, so as not to burden the file with duplicate copies of references. Examiner is respectfully requested to carefully review the references in ance with the requirements set out in the Manual of Patent Examining lure. In accordance with 37 CFR 1.98(d), the details of the parent application(s) upon for an earlier filing date under 35 USC 120 in which copies of the nees were previously furnished are set out below:				

In re Appln. of Wang et al. Application No. 09/896,062

	U.S. APPLIC	CATIONS	Status (check one)				
U.	S. APPLICATIONS	U.S. FILING DATE	PATENTED	PENDING	ABANDONED		
1.							
2.	P W4				ļ		
3.							
Stater	nent under 37 CFR	1.97(e)					
	The undersigned hereby states that each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign patent application not more than three months prior to the filing of the Information Disclosure Statement.						
	The undersigned hereby states that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign patent application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the Information Disclosure Statement.						
Stater	nent under 37 CFR	1.704(d)					
	Information Discloroffice in a counter any individual desi	hereby states that each sure Statement was cited part application and that gnated in 37 CFR 1.560 Disclosure Statement.	l in a communi t this commun	cation from a ication was i	a foreign patent not received by		
Fees							
	No fee is owed by the IDS Fee of \$18	he applicant(s). 30 under 37 CFR 1.17(p)	is enclosed he	erewith.			
Metho	od of Payment of Fe	es					
		in the amount of \$ count No. 12-1216 in the is enclosed for that pur		. (A dı	plicate copy of		
Autho	orization to Charge	Additional Fees					
		es are owed in connection o. 12-1216. (A duplica					

In re Appln. of Wang et al. Application No. 09/896,062

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Credit Account No. 12-1216.

Phillip M. Pippenger, Reg. No. 46,055 LEYDIG, VOIT & MAYER, LTD. Two Prudential Plaza, Suite 4900 180 North Stetson Chicago, Illinois 60601-6780 (312) 616-5600 (telephone) (312) 616-5700 (facsimile)

Date: January 30, 2002

CERTIFICATE OF MAILING

I hereby certify that this INFORMATION DISCLOSURE STATEMENT (along with any documents referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231.

Date: 0//30/02 Colles

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Substitute for form 1449A/B/PTO	FEB 1 3 2002

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INFORMATION DISCLOSURE STATEMENT BY ARPECANT

ATEMENT BY APPLICANT

(Use as many sheets as necessary)

of

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Application Number	09/896,062
Filing Date	June 29, 2001
First Named Inventor	Wang et al.
Group Art Unit	2644
Examiner Name	Unassigned
Attorney Docket Number	207496

-				U.S. PATENT DOCUMENTS	•	
		U.S. Patent Do	cument			
Examiner Initials	Doc. No.	Application or Patent Number	Kind Code	Name of Patentee or Applicant	Date of Publication	Filing Date If Appropriate
	АА	4,969,192		Voicecraft, Inc.	Nov. 6, 1990	
			<u> </u>			
						
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•					IGN PATENT DOCUMENTS			
		F	oreign Patent Documer	it .			Translation	
Examiner Initials	Doc. No.	Office	Application or Patent Number	Kind Code	Name of Patentee or Applicant	Date of Publication	Yes	No**
	ΑB		EP 0,503,684		Voicecraft, Inc.	July 1, 1998		
	AC		CA 1,336,454		Voicecraft, Inc.	July 25, 1995		
į.	ΑD		JP 2887286		Voicecraft, Inc. (Unable to o btain copy of Issued Patent)	June 29, 1999		

		OTHER - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials	Doc.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item		
	No.	(book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number (s), publisher, city and/or country where published.	Yes	No*+
	ΑE	Juin-Hwey et al., "Adaptive postfiltering for quality enhancement of coded speech," IEEE Trans. SP. Vol. 3, No. 1, 1995, pp. 59-71.		
-: **	AF	Azhar Mustapha et al., "An adaptive postfiltering technique based on the modified Yule-Walker filter," ICASSP-1999, pp. 197-200.		
	AG	H. Tasaki et al., "Post noise smother to improve low bit rate speech-coding performance," Proceeding of 1999 Workshop on Speech Coding for Telecommunication, pp. 159-161.		
	АН	Roch Lefebvre et al., "Spectral amplitude warping (SAW) for noise spectrum s haping in audio coding," ICASSP-1997, pp. 335-338.		
	ΑI	H. Tasaki et al., "Spectral postfilter design based on LSP transformation," Proceeding of 1997 Workshop on Speech Coding for Telecommunication, pp. 57-58.		

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Examiner Signature	Date Considered	 	-		٦
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^{*} A concise statement of relevance is being submitted in lieu of a translation. 37 CFR 1.98(a)(3).

⁺ An English-language equivalent/patent, or an English-language abstract, or an English-language version of the search report or action by a foreign patent office in a counterpart foreign application indicating the degree of relevance found by the foreign office is being submitted in lieu of a concise explanation of relevance under 37 CFR 1.98(a)(3).